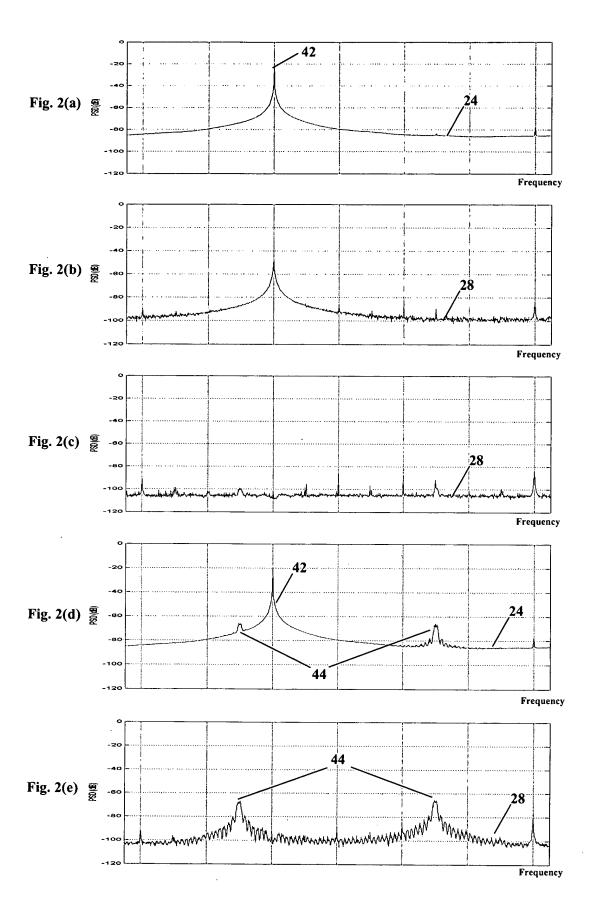


FIG. 1



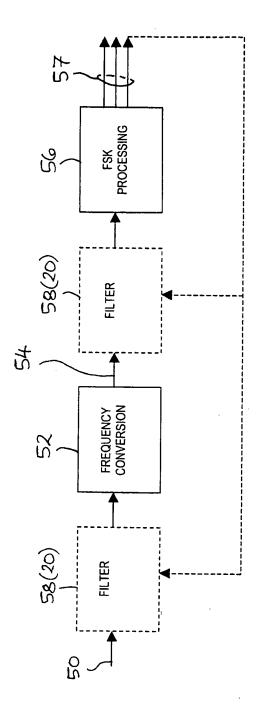
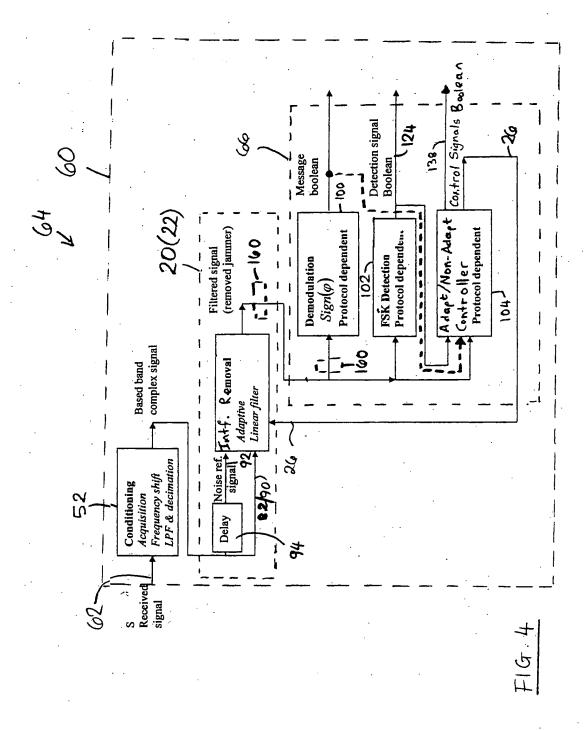
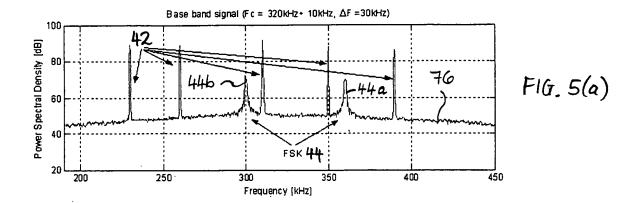
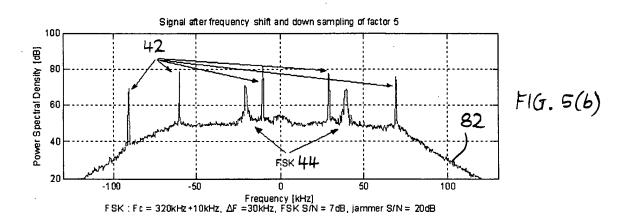
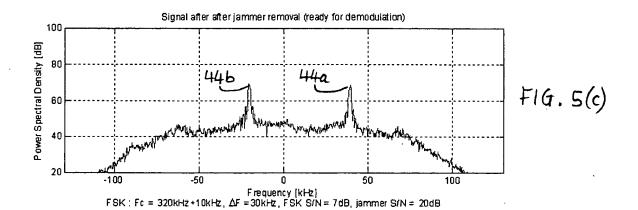


FIG. 3









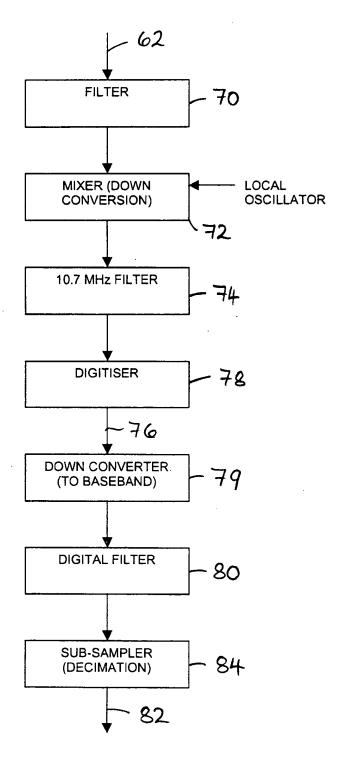


FIG.6

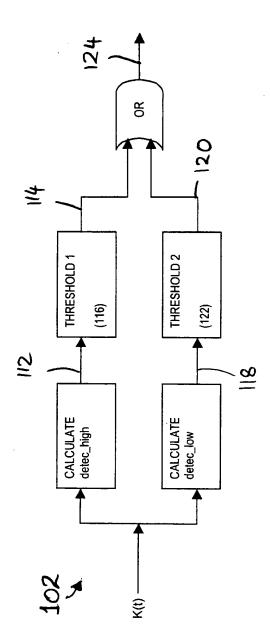


FIG. 7

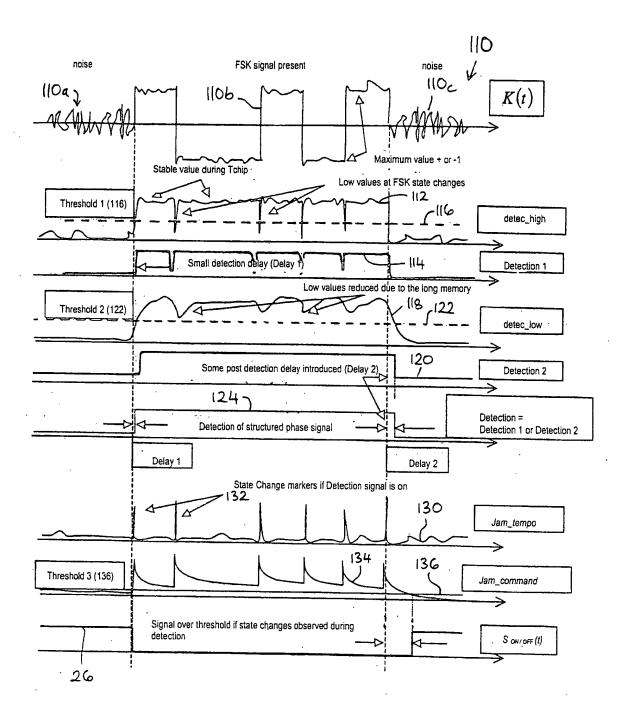


FIG. 8

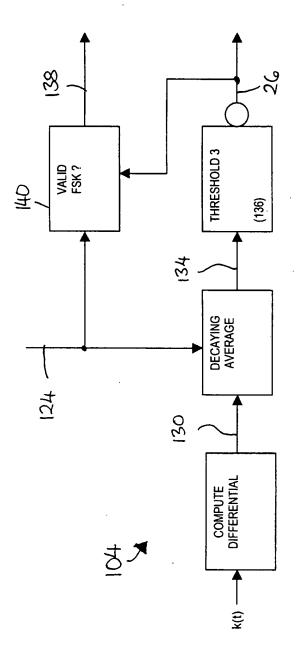
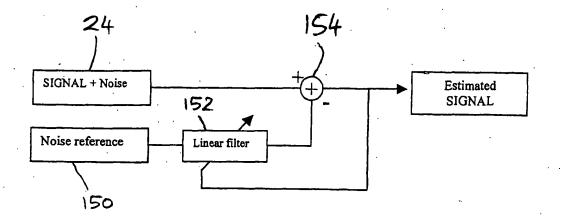


FIG. 9



F1G.10

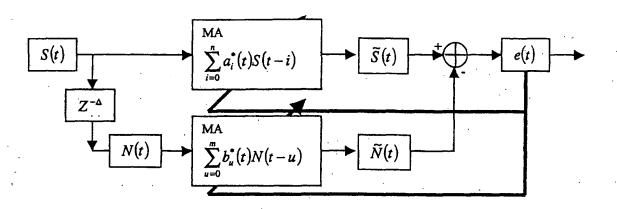
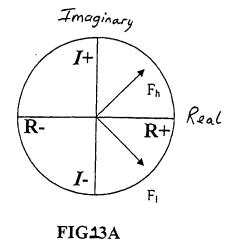


FIG. 11

$$\begin{split} \widetilde{N}(t) &= \sum_{u=0}^{m} b_{u}^{*}(t) S_{CFD}(t-\Delta-u) = \widetilde{B}^{T}(t) \widetilde{N}(t) \\ \widetilde{S}(t) &= \sum_{i=0}^{n} a_{i}^{*}(t) S_{CFD}(t-i) = \widetilde{A}^{T}(t) \widetilde{S}(t) \\ S_{CFDJ}(t) &= \widetilde{S}(t) - \widetilde{N}(t) \\ \\ Jarmer subtraction \\ Dower(t+1) &= power(t) + \mu_{power} \left( S_{CFD}(t+1) S_{CFD}^{*}(t+1) - power(t) \right) \\ \partial &= \frac{\alpha}{power(t)} S_{ONIOFF}(t) \\ \widetilde{B}(t+1) &= \widetilde{B}(t) - \delta \widetilde{N}(t+1) e^{*}(t+1) \\ \widetilde{A}(t+1) &= \widetilde{A}(t) + \delta \widetilde{S}(t) e^{*}(t+1) \\ with \\ \widetilde{B}(t) &= \left[ b_{0}(t) \ b_{1}(t) \ ...b_{m}(t) \right] colon \ vector \\ \widetilde{A}(t) &= \left[ 1 \ a_{1}(t) \ ...a_{m}(t) \right] colon \ vector \\ \widetilde{S}(t) &= \left[ S_{CFD}(t-\Delta) \ S_{CFD}(t-\Delta-1) \ S_{CFD}(t-\Delta-m) \right] colon \ vector \\ \widetilde{N}(t) &= \left[ S_{CFD}(t-\Delta) \ S_{CFD}(t-\Delta-1) \ S_{CFD}(t-\Delta-m) \right] colon \ vector \\ \end{split}$$

FIG. 12



Imaginary

Ph I+

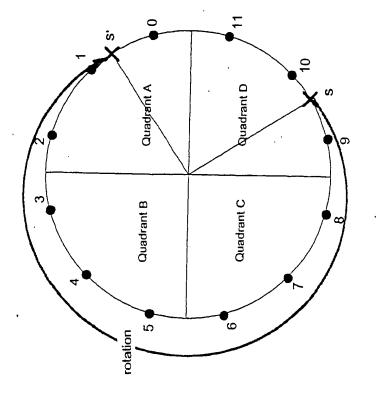
Delta Fc

F1

R
R+

Real

FIG13B



5

Figure 148

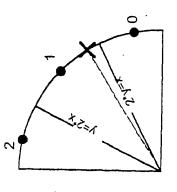


Figure 14C

Figure 14A

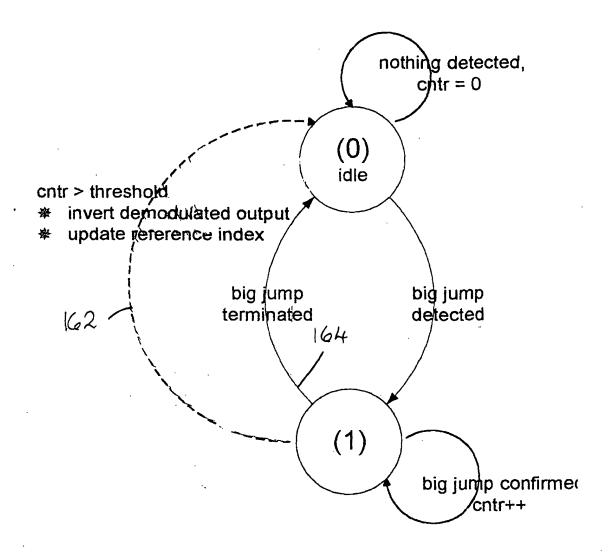


FIG. 15